



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Professional Services Contract for Water Distribution System Study

MEETING DATE: September 1, 1999

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council authorize the City Manager to execute a professional services contract with Boyle Engineering to evaluate the water distribution system, and appropriate the necessary funds (\$60,000).

BACKGROUND INFORMATION: The City has had to chlorinate the water system on four different occasions during the last two-year period due to unacceptable coliform bacteria levels. In part, this is due to drinking water standards that were made much more stringent in 1992, resulting in some of our recent violations. We may also have increased bacteriological activity in the distribution system and/or possible cross connections. City staff does not have the time, and only limited experience, to thoroughly investigate the causes, evaluate options, and recommend remediation steps. Since full-time chlorination is one of the likely outcomes of continuing violations, we want to thoroughly evaluate the problem and possible solutions. Mr. Gunter "Fritz" Redlin, formerly of the California Department of Health Services (DHS) Drinking Water Branch (20 years), is now with Boyle Engineering. He has conducted many system evaluations of this type in both positions.

The following are tasks that would be performed as part of the contract. Tasks 14 and 15 are still under consideration by staff and would be added to the project pending intermediate results of the study.

- Task 1 Project Kick-Off Meeting with City Staff and Meeting with Department of Health Services
- Task 2 Evaluation of Lodi's 25 Well Sites
- Task 3 Evaluation of GAC Treatment Plants
- Task 4 Evaluation of Existing Chlorination Treatment Equipment at Well Sites
- Task 5 Evaluation of Water Storage Sites
- Task 6 Review of Historical Bacteriological Test Results from Distribution System
- Task 7 Distribution System Evaluation
- Task 8 New and Repaired Water Main Considerations
- Task 9 Biofilm Confirmation
- Task 10 Adequacy of Operational Staff
- Task 11 Preparation of Draft Engineering Report
- Task 12 Draft Report Review and Other Client Meetings
- Task 13 Preparation of Final Engineering Report
- Task 14 *Optional Work Task – Groundwater Two-Year Travel Time Calculations
- Task 15 *Optional Work Task – Procedures Manual for Work on City Water Mains by City Staff and Contractors

FUNDING: Water Utility - Water Distribution System Study \$60,000 (\$45,000 budgeted, \$15,000 Water Fund balance)

Funding Available:

Vicki M. Altier
Finance Director

Richard C. Prima, Jr.
Public Works Director

Prepared by Fran E. Forkas, Water/Wastewater Superintendent

RCP/FEF/dsg/lm

cc: City Attorney

Water/Wastewater Superintendent
Boyle Engineering

APPROVED: _____

H. Dixon Flynn
H. Dixon Flynn -- City Manager

CITY COUNCIL

KEITH LAND, Mayor
STEPHEN J. MANN
Mayor Pro Tempore
SUSAN HITCHCOCK
ALAN S. NAKANISHI
PHILLIP A. PENNINO

CITY OF LODI

CITY HALL, 221 WEST PINE STREET
P.O. BOX 3006
LODI, CALIFORNIA 95241-1910
(209) 333-6706
FAX (209) 333-6710

August 26, 1999

H. DIXON FLYNN
City Manager
ALICE M. REIMCHE
City Clerk
RANDALL A. HAYS
City Attorney

Mr. Gunter "Fritz" Redlin
Boyle Engineering Corp.
1044 E. Herndon Ave., Ste. 108
Fresno, CA 93720

SUBJECT: Professional Services Contract for Water Distribution System Study

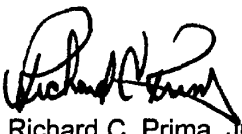
Enclosed is a copy of background information on an item on the City Council agenda of Wednesday, September 1, 1999. The meeting will be held at 7 p.m. in the City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the consent calendar and is usually not discussed unless a Council Member requests discussion. The public is given an opportunity to address items on the consent calendar at the appropriate time.

If you wish to write to the City Council, please address your letter to City Council, City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's card (available at the Carnegie Forum immediately prior to the start of the meeting) and give it to the City Clerk. If you have any questions about communicating with the Council, please contact Alice Reimche, City Clerk, at (209) 333-6702.

If you have any questions about the item itself, please call Fran Forkas, Water/Wastewater Superintendent, at (209) 333-6740.



Richard C. Prima, Jr.
Public Works Director

RCP/lm

Enclosure

cc: City Clerk ✓
Water/Wastewater Superintendent